

## CLAIMS

1. A co-catalyst for purifying an exhaust gas  
5 comprising:

sub a)  
10 a composite oxide including (a) cerium; and (b) at least one element selected from the group consisting of zirconium, yttrium, strontium, barium and a rare-earth element supported on a particulate aluminum oxide support; a specific surface area of the co-catalyst after sintering being not less than 40 m<sup>2</sup>/g; an oxygen storage capacity at 400 °C being not less than 10 μmols/g and an oxygen storage capacity at 700 °C being not less than 100 μmols/g.

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2. The co-catalyst for purifying the exhaust gas as defined in claim 1, wherein sintering is conducted at a temperature condition between 800 and 1100 °C.

20 3. A catalyst for purifying an exhaust gas comprising:  
a precious metal catalyst; and  
a co-catalyst for purifying the exhaust gas including a composite oxide including (a) cerium; and (b) at least one element selected from the group consisting of  
25 zirconium, yttrium, strontium, barium and a rare-earth;

sub a)

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